

DISTRICT 106 AND 108 DRIFT GILL NET MONITORING, 1988

By

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ABSTRACT

On-ground vessel interviews were conducted in 1988 to assist in managing the District 106 and 108 drift gill net fisheries. Vessels were randomly selected from 20 to 50 percent of the fleet and specific areas were sampled each week. Total catch projections and catch-per-unit-effort projections were comparable to the final catch. The presence of the management biologist on the grounds ensured better control of the fisheries.

INTRODUCTION

The Prince of Wales (District 106) and Stikine (District 108) drift gill net fisheries are interrelated due to their close proximity and salmon migration patterns which result in major stocks being subjected to both fisheries. The Alaska Department of Fish and Game (ADF&G) has conducted in-season catch sampling in these fisheries since the mid-1960's. The yearly and weekly sampling was sporadic until the early 1980's when increased emphasis was placed on obtaining weekly in-season catch trends for managing the fishery. Starting in 1985 unmanned vessels were used to assist with the sampling. Since that time, the weekly surveys have been conducted on a regular basis.

The weekly monitoring information is used by the Commercial Fisheries Division management staff to help assess the in-season run strengths of the various salmon stocks that are harvested in both districts. The management of these fisheries is based primarily on sockeye salmon early in the season, pink salmon in the middle, and coho salmon towards the end of the season. On-ground vessel interviews are conducted to obtain catch-per-unit-effort (CPUE), catch trends, fleet dispersment, number of boats fishing, weather and other factors that might influence the daily catches. The individual fisherman's catch information and catch area is kept confidential.

METHODS

District 108, which is close to Petersburg and Wrangell, was monitored by skiff. In District 106 a skiff was used, with a float house serving as the base of operations. To assist with the monitoring, aerial surveys of the fishery were occasionally flown to record vessel names and the number of vessels fishing in various locations.

To assure randomness in the surveys, a fisheries technician not familiar with the vessels would operate the skiff and decide which vessels to contact, while the management biologist would conduct the interview and record the catch data. Vessels running or working gear were generally not interviewed to avoid conflicting with the fishermen's operations. Depending upon the number of vessels fishing an area, the percentage of the fleet surveyed would range from 20 to 50 percent. The area sampled each week would vary depending upon the area open and the target species. The number of daily interviews per week was dependent upon the duration of the weekly fishing period. Weekly gill net openings commenced at 12:01 p.m. on Sundays. During the first day of the fishery individual vessel interviews were not conducted but occasional area surveys were made to count the number of boats starting in certain areas. Vessel interviews were conducted throughout the daylight hours after the fishery had been open at least 18 hours.

Catches by species were averaged, and a projected CPUE and estimated total catch was made from the data collected during the fishery. These projections were compared to historical catch data to gauge the weekly catch performance of the fishery. Fishing effort and time were also used in the comparison. These projections were then updated using the initial fish tickets received following the fishery. This projection was relayed to the Juneau regional office to distribute to the other ADF&G offices (Table 1).

RESULTS

On-grounds monitoring was accomplished from mid-June through mid-August during open fishing periods. On-ground projections, mid-week projections and final catches for both districts were very comparable (Tables 2 and 3). By having this data early in the week, it proved to be beneficial for managing the fisheries and setting the weekly openings.

DISCUSSION

The Prince of Wales and Stikine drift gill net fisheries monitoring program has proven beneficial not only for providing in-season catch estimation, but it has also helped with determining the following week's fishing times and areas. Both fisheries are managed on CPUE and total catch information. By monitoring the fishery on the grounds, not only can the catch information be obtained, but fishing trends, fleet movement within the week, the percent at which the daily catches are decreasing or increasing within each week, and a better knowledge of the fishery can be obtained by the management biologist.

Having the management biologist on the fishery can also benefit the fishing fleet in that if additional fishing time is warranted during the week, an extension can be given. Occasionally individual catches have been overestimated by the fishermen to ensure an extension. Questionable estimates are compared later with the fish ticket to verify the catch estimate. In addition to the benefits of better management the program provides, it also helps the Department's public relations with the fishermen by being on the fishing grounds.

Table 1. 1988 gill net catch estimates reported to the Douglas regional office.

Date	Area	Chinook	Sockeye	Coho	Pink	Chum	# Boats
6/23/88	6	170	2190	137	36	1680	40
Week 26	8	96	151	2	7	107	2
6/30/88	6	170	6100	420	430	3100	55
Week 27	8	59	397	8	1	552	8
7/07/88	6	65	5800	550	1530	8300	55
Week 28	8	28	245	0	12	1177	7
7/14/88	6	110	21300	1600	2900	9700	71
Week 29	8	8	385	0	80	766	4
7/21/88	6	105	14900	1030	1800	8300	108
Week 30	8	0	0	0	0	0	Closed
7/28/88	6	45	8600	1000	3700	9000	105
Week 31	8	0	0	0	0	0	Closed
8/04/88	6	85	9700	1460	8200	6300	66
Week 32	8	0	0	0	0	0	Closed
8/11/88	6	5	1220	495	2157	1193	36
Week 33	8	0	0	0	0	0	Closed
8/18/88	6	45	2000	1600	10600	2540	65
Week 34	8	0	0	0	0	0	Closed
8/25/88	6	10	480	2900	13300	2600	85
Week 35	8	0	0	0	0	0	Closed
9/01/88	6	1	80	680	3100	650	17
Week 36	8	0	0	0	0	0	Closed
9/08/88	6	0	0	0	0	0	Closed
Week 37	8	0	0	0	0	0	Closed

Table 2. 1988 weekly target species projections for District 106.

STAT WEEK		ON GROUND	MID-WEEK	FINAL
26	CPUE CATCH BOATS	20-25 S/B/D - 38	23 S/B/D 2190 S 40	25 S/B/D 2253 S 46
27	CPUE CATCH BOATS	55-60 S/B/D - 40 Sumner St.	56 S/B/D 6100 S 55	54 S/B/D 8516 S 79
28	CPUE CATCH BOATS	60-70 S/B/D - 52	53 S/B/D 5888 S 55	59 S/B/D 8788 S 75
29	CPUE CATCH BOATS	100-125 S/B/D - 73	100 S/B/D 21300 S 71	104 S/B/D 24718 S 79
30	CPUE CATCH BOATS	80-90 S/B/D - 98	69 S/B/D 14900 S 108	80 S/B/D 18215 S 114
31	CPUE CATCH BOATS	70-80 S/B/D - 65 Sumner St.	41 S/B/D 8600 S 105	52 S/B/D 12042 S 116
32	CPUE CATCH BOATS	80-100 S/B/D - 66	74 S/B/D 9700 S 66	81 S/B/D 12408 S 77
33	CPUE CATCH BOATS	No Survey	60 P/B/D 2157 P 36	62 P/B/D 3276 P 53
34	CPUE CATCH BOATS	150-160 P/B/D - 20 Sumner St.	163 P/B/D 10600 P 65	220 P/B/D 17388 P 79
35	CPUE CATCH BOATS	170-180 P/B/D - 53 Clarence St.	156 P/B/D 13300 P 85	218 P/B/D 19222 P 88
36	CPUE CATCH BOATS	108 S/B/D - 10	182 P/B/D 3100 P 17	137 P/B/D 3290 P 24
37	CPUE CATCH BOATS	CLOSED		

CPUE is major species catch per boat per day.
 S/B/D = Sockeye salmon per boat per day.
 P/B/D = Pink salmon per boat per day.
 S = Sockeye salmon
 P = Pink salmon

Table 3. 1988 weekly target species projections for District 108.

STAT WEEK		ON GROUND	MID-WEEK	FINAL
26	CPUE	10 S/B/D	11 S/B/D	11 S/B/D
	CATCH	-	151S	151S
	BOATS	4 (8B)	7	7
27	CPUE	60 S/B/D	25 S/B/D	25 S/B/D
	CATCH	-	397S	397S
	BOATS	2 (8B)	8	8
28	CPUE	-	84 C/B/D	77 C/B/D
	CATCH	-	1177C	1684C
	BOATS	8 (8A)	7	11
29	CPUE	-	96 C/B/D	96 C/B/D
	CATCH	-	766C	766C
	BOATS	-	4	4
30	CPUE			
	CATCH	CLOSED		
	BOATS			

CPUE is major species catch per boat per day.

S/B/D = Sockeye per boat per day

C/B/D = Chum per boat per day

S = Sockeye Salmon

C = Chum Salmon

APPENDICES

Appendix A. In-season vessel interviews.

STAT WEEK 26

DATE	BOAT I.D.	BOAT SEEN	AREA	TIME	TARGET SPECIES	OTHER SALMON
6/19	1	7	Vank Is.	17:00	2 Sockeye	4 King
	2			17:30	7 Sockeye	8 King
	3			18:00	3 Sockeye	1 King
	4			18:30	0 Sockeye	4 King
6/20		4	Vank Is.	07:30		
	1	30	Pt. Baker	09:50	15 Sockeye	8 Chum
	2				35 Sockeye	35 Chum
	3				14 Sockeye	11 Chum
	4				50 Sockeye	10 Chum
	5				22 Sockeye	15 Chum
	6				25 Sockeye	35 Chum
	7	5	Marsh Is.	12:30	8 Sockeye	2 Chum
	1			14:30	5 Sockeye	0
	2				8 Sockeye	11 Chum
	3			15:00	14 Sockeye	6 Chum
	1	3	Coffman Cove	15:15	25 Sockeye	5 Chum
6/21		19	Pt. Baker	09:00	Aerial	
		2	Coffman Cove	09:30	Aerial	
		7	Marsh Is.	09:45	Aerial	

During the first week of the regular drift gill net season, early vessel interviews in District 8 indicated a poor sockeye salmon harvest of only 10 sockeye per boat per day (S/B/D) and a projected king salmon harvest of 16 fish per boat. The sockeye catches at Point Baker for the first full day of fishing averaged between 20-25 sockeye a boat. Approximately 30 boats fished in the area. Only eight boats were seen fishing in Clarence Strait with a low harvest of only 13 S/B/D. The chum salmon catch in District 106 is above average with fishermen reporting that the chum are smaller than normal. The low effort was caused by the halibut opening dates conflicting with the gill net dates.

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STAT WEEK 27

DATE	BOAT I.D.	BOAT SEEN	AREA	TIME	TARGET SPECIES	OTHER SALMON
6/19	1	7	Vank Is.	17:00	2 Sockeye	4 King
6/27	0		Blind Slough	07:45		
	1	2	Vank Is.	08:00	40 Sockeye	10 Chum
	2				80 Sockeye	30 Chum
	1	6	Macnamara Pt.	09:00	75 Sockeye	
	2				110 Sockeye	
	3				80 Sockeye	
	1	40	Pt. Baker	09:45	100 Sockeye	
	2				100 Sockeye	
	3				70 Sockeye	
	4				50 Sockeye	
	5				60 Sockeye	20 Chum
	6				100 Sockeye	
	7				40 Sockeye	
	8				20 Sockeye	
	9				30 Sockeye	
	10			12:00	50 Sockeye	
		1	Pt. Colpoys	12:30		
		0	Bushy Is.	12:45		
	1	1	Snow Pass	13:00	50 Sockeye	
	1	7	Marsh Is.	14:00	60 Sockeye	

Vessel interviews conducted at Macnamara Point indicated a sockeye per boat average of 83 fish per boat or approximately 90 per day while the Point Baker area averaged 62 per boat or about 65 per day. The weather was poor in Clarence Strait, and no vessel interviews were conducted south of Snow Pass. From monitoring the radio it appeared that most of the vessels in the Clarence Strait area fished part of the fishery, but very few boats were able to fish the entire fishery. The on-grounds catch projections were lowered for District 6 to account for the poor weather condition in Clarence Strait. The majority of the vessels surveyed did not count the number of salmon harvested except for their sockeye.

STAT WEEK 28

DATE	BOAT I.D.	BOAT SEEN	AREA	TIME	TARGET SPECIES	OTHER SALMON
7/5		0	Macnamara Pt.	08:00		
	1	4	Pt. Colpoys	08:30	350 Sockeye	120 Chum
	2				200 Sockeye	300 Chum
	1	20	Pt. Baker	09:00	190 Sockeye	120 Chum
	2				35 Sockeye	150 Chum
	3				75 Sockeye	160 Chum
	4				80 Sockeye	165 Chum
	5				160 Sockeye	80 Chum
	6				150 Sockeye	150 Chum
	7				200 Sockeye	400 Chum
	8				50 Sockeye	200 Chum
	9				76 Sockeye	150 Chum
	10			10:30	90 Sockeye	300 Chum
	0	8	Frederick Sound	09:00	Aerial	
	0	24	Clarence St.	10:00	Aerial	
	0	2	Lava Bay	11:00	Aerial	
	0	4	Pt. Colpoys	11:15	Aerial	
	0	22	Pt. Baker	11:30	Aerial	
	0	0	Ohmer Creek	13:30	Skiff	

At 0800 on July 5, two of the four boats fishing at Macnamara Point checked out with 275 sockeye/boat and 210 chum/boat. From 0900-1030, 10 of the 20 boats fishing at Point Baker were interviewed and had 111 sockeye/boat and 188 chum/boat. The projected sockeye harvest for District 6, based on the catches from the two areas, was between 60-70 sockeye/boat/day. An aerial survey conducted on the same date just before the closure indicated that the vessels were split equally between Clarence Strait and Sumner Strait.

STAT WEEK 29

DATE	BOAT I.D.	BOAT SEEN	AREA	TIME	TARGET SPECIES	OTHER SALMON
7/11	0	25	Pt. Baker	09:00	Aerial	
	0	5	Red Bay	09:30	Aerial	
	0	3	Macnamara Pt.	09:45	Aerial	
	0	36	Clarence St.	10:00	Aerial	
	1	25	Pt. Baker	12:00	150 Sockeye	100 Chum
	2				100 Sockeye	60 Chum
	3				180 Sockeye	120 Chum
	4				200 Sockeye	100 Chum
	5				245 Sockeye	125 Chum
	6				135 Sockeye	
	7				260 Sockeye	
	8				150 Sockeye	150 Chum
	9				125 Sockeye	125 Chum
	10				125 Sockeye	250 Chum
	11				125 Sockeye	125 Chum
	12			14:00	150 Sockeye	130 Chum
	1	5	Red Bay	14:14	150 Sockeye	150 Chum
	1	4	Pt. Colpoys	14:30	80 Sockeye	120 Chum
	2				130 Sockeye	90 Chum
	1	3	Macnamara Pt.	15:00	215 Sockeye	110 Chum
	2				300 Sockeye	150 Chum
7/12	1	17	Marsh Is.	07:15	164 Sockeye	82 Chum
	2				85 Sockeye	50 Chum
	3				420 Sockeye	
	4				400 Sockeye	100 Chum
	5				200 Sockeye	
	6				450 Sockeye	
	7				125 Sockeye	75 Chum
	8				300 Sockeye	
	9			08:30	400 Sockeye	
	1	30	Pt. Baker	15:00	256 Sockeye	
	2				200 Sockeye	
	3				290 Sockeye	
	4				100 Sockeye	
	5				250 Sockeye	
	6				250 Sockeye	
	7				240 Sockeye	
	8				120 Sockeye	
	9				364 Sockeye	
	10				230 Sockeye	
	11				230 Sockeye	
July 12	12			17:00	300 Sockeye	

An aerial survey flown on July 11 indicated that the fishing vessels are again just about equally split between Clarence Strait and Sumner Strait. Following the first full day of fishing, 12 of the estimated 25 boats fishing in the Point Baker area were surveyed for 162 sockeye/boat/day and 128 chum/boat/day. The boats fishing in the remainder of Sumner Strait had similar catches. At noon on July 12, 9 of the 17 vessels fishing in the Marsh Island area were surveyed for 283 sockeye/boat or approximately 161 sockeye/boat/day. A 24-hour extension was announced on the fishing grounds due to the good sockeye catches. On the afternoon of July 12, 12 of the 30 boats fishing at Point Baker averaged 236 sockeye/boat or about 105 sockeye/boat/day. No surveys were conducted on July 13 due to the poor weather conditions.

STAT WEEK 30

DATE	BOAT I.D.	BOAT SEEN	AREA	TIME	TARGET SPECIES	OTHER SALMON
7/17		47	Pt. Baker	15:00	Aerial	
		9	Macnamara Pt.	15:30	Aerial	
7/18	1	8	Coffman Cove	13:45	60 Sockeye	
	2				70 Sockeye	
	3				87 Sockeye	
	4				75 Sockeye	
	1	40	Marsh Is.	15:00	50 Sockeye	15 Pink
	2				118 Sockeye	
	3				50 Sockeye	
	4				50 Sockeye	
	5				40 Sockeye	
	6				60 Sockeye	
	7				100 Sockeye	
	8				25 Sockeye	
	9				60 Sockeye	
	10				140 Sockeye	
	11				300 Sockeye	
	12				130 Sockeye	
	13			17:30	110 Sockeye	
7/19	1	50	Pt. Baker	08:00	230 Sockeye	
	2				130 Sockeye	5 Pink
	3				430 Sockeye	20 Pink
	4				200 Sockeye	70 Chum
	5				190 Sockeye	80 Chum
	6				210 Sockeye	200 Chum
	7				100 Sockeye	100 Chum
	8				90 Sockeye	10 Coho
	9				119 Sockeye	61 Chum
	10				235 Sockeye	285 Chum
	11				90 Sockeye	60 Chum
	12				180 Sockeye	150 Chum
	13			09:30	100 Sockeye	

Vessel interviews conducted in Clarence Strait for just over 24 hours of fishing averaged 73 sockeye/boat at Coffman Cove and 95 sockeye/boat at Marsh Island. This should average out to about 75 sockeye/boat/day. Most of the vessels contacted also indicated that the chum harvest was dropping off and the pink and coho catches were still poor. On July 19 the vessel interviews in the Point Baker area averaged 177 sockeye/boat or about 95-100 sockeye/boat/day. They also indicated a decrease in the chum harvest. Vessel counts in both Clarence Strait and Sumner Strait are about equal but the total has increased significantly over the last two weeks.

STAT WEEK 31

DATE	BOAT I.D.	BOAT SEEN	AREA	TIME	TARGET SPECIES	OTHER SALMON
7/25	1	7	Macnamara Pt.	18:30	170 Sockeye	100 Chum
	2				60 Sockeye	30 Pink
	3				60 Sockeye	100 Chum
	4				60 Sockeye	120 Chum
	5	0	Pt. Colpoys	19:30	90 Sockeye	
				19:45		
7/26	1	1	Red Bay	08:00	70 Sockeye	290 Chum
		65	Sumner St.	10:00	Aerial	
	1	60	Pt. Baker	08:15	50 Sockeye	
	2				90 Sockeye	
	3				110 Sockeye	300 Chum
	4				100 Sockeye	
	5				70 Sockeye	30 Chum
	6				100 Sockeye	150 Chum
	7				60 Sockeye	20 Chum
	8				280 Sockeye	
	9				120 Sockeye	
	10				125 Sockeye	
	11				200 Sockeye	
	12				250 Sockeye	
	13				240 Sockeye	30 Coho
	14				110 Sockeye	
	15				200 Sockeye	
	16				50 Sockeye	
	17				210 Sockeye	
	18				140 Sockeye	
	19				50 Sockeye	
	20			10:00	120 Sockeye	

On July 25 the wind blew too hard to interview boats until late in the evening and only Macnamara Point and Point Colpoys were checked. No boats were fishing at Point Colpoys, and the boats at Macnamara Point averaged 88 sockeye/boat. From monitoring the radio it appeared that all of the catches would be lower this week. It also sounded like the boats in Clarence Strait were unable to fish as much as the boats in Sumner Strait due to the poor weather during both days. The best fishing at Point Baker came from East Rock and only a few could fish the area.

STAT WEEK 32

DATE	BOAT I.D.	BOAT SEEN	AREA	TIME	TARGET SPECIES	OTHER SALMON
8/1		6	Macnamara Pt.	12:00	Skiff	
	1	1	Kashevarof	14:00	77 Sockeye	45 Pink
		0	Luck Point	14:15		
	1	28	Marsh Is.	14:30	70 Sockeye	95 Chum
	2				100 Sockeye	125 Chum
	3				55 Sockeye	
	4				50 Sockeye	60 Chum
	5				90 Sockeye	100 Chum
	6				100 Sockeye	80 Chum
	7				40 Sockeye	
	8				115 Sockeye	200 Pink
	9				70 Sockeye	40 Chum
	10				150 Sockeye	80 Chum
	11				120 Sockeye	115 Chum
8/2	12			16:30	140 Sockeye	
		1	Bushy Is.	17:00		
	1	8	Pt. Colpoys	07:30	210 Sockeye	
	2				300 Sockeye	
	3				125 Sockeye	100 Chum
	4			08:15	225 Sockeye	100 Chum
	1	3	Buster Bay	08:30	200 Sockeye	
	1	6	Pt. Baker	09:00	200 Sockeye	
	2				140 Sockeye	
	3				70 Sockeye	
	4				240 Sockeye	
	5			10:00	90 Sockeye	
		30	Sumner St.		Skiff	

Only one fishing boat was seen fishing on August 1 along the east side of Prince of Wales Island. Boats fishing at Marsh Island indicated that the boats fishing along the Prince of Wales shoreline had poor catches due to jellyfish and poor fishing conditions on their first sets. The fishermen also felt that the sockeye and chum catches were dropping off from the first day. The boats fishing in Sumner Strait were spread out more this week and not concentrating on the Point Baker line. The best fishing appeared to be off Buster Bay, but the fishing was not consistent.

STAT WEEK 33

DATE	BOAT I.D.	BOAT SEEN	AREA	TIME	TARGET SPECIES	OTHER SALMON
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Due to poor weather conditions the fishery was not monitored by plane or skiff this week.

STAT WEEK 34

DATE	BOAT I.D.	BOAT SEEN	AREA	TIME	TARGET SPECIES	OTHER SALMON
8/14		2	Macnamara Pt.	16:00	Skiff	
	1	1	Pt. Colpoys	19:00	60 Pink	15 Sockeye
	1	17	Pt. Baker	20:00	30 Pink	15 Sockeye
	2			1	60 Pink	15 Sockeye
	3			1	60 Pink	18 Sockeye
	4			21:00	50 Pink	12 Sockeye

On August 14 the fishery in Sumner Strait was monitored from 1900-2100. The fleet was spread out, and no one place had a high concentration of boats. Saw 20 boats and interviewed five for the following averages: 13 sockeye, 52 pinks and 11 coho per boat for the first 8 hours of fishing. All of the boats interviewed were using sockeye gear (5 1/8-5 3/8 inch mesh). Due to the heavy fog on August 15 no vessel interviews were conducted. Radio monitoring indicated that a lot of new boats were fishing in Clarence Strait.

STAT WEEK 35

DATE	BOAT I.D.	BOAT SEEN	AREA	TIME	TARGET SPECIES	OTHER SALMON
8/22	1	18	Marsh Is.	08:00	12 Pink	1 Coho
	2				5 Pink	2 Coho
	3				100 Pink	20 Coho
	4				50 Pink	12 Coho
	5				6 Pink	3 Coho
	6				150 Pink	15 Coho
	7				180 Pink	8 Coho
	9			09:00	960 Pink	20 Coho
	1	35	Coffman Cove	09:10	5 Pink	10 Coho
	2				30 Pink	0 Coho
	3				120 Pink	5 Coho
	4				140 Pink	5 Coho
	5				80 Pink	15 Coho
	6				100 Pink	20 Coho
	7				10 Pink	0 Coho
	8			10:00	60 Pink	5 Coho
	7	7	Kashevarof	10:15	Skiff	
	68	68	Clarence St.	10:00	Aerial	
	17	17	Sumner St.	09:00	Aerial	

High winds on August 21 cancelled the skiff interviews. Radio monitoring indicated that most of the vessels in Clarence Strait made 1 or 2 sets before being forced to anchor up for the afternoon. In Sumner Strait only a small portion of the fleet had to anchor up. On August 22, 18 boats were counted at Marsh Island for 163 pink/boat and only 9 coho/boat. At Coffman Cove an estimated 35 boats fished for 75 pink/boat and only 7 coho/boat. In addition 7 boats were fishing in Kashevarof Passage. The increase in boats fishing in Clarence Strait were from the Tree Point area.

STAT WEEK 36

DATE	BOAT I.D.	BOAT SEEN	AREA	TIME	TARGET SPECIES	OTHER SALMON
8/22	1	10	Marsh Is.	09:30	200 Pink	15 Coho
	2				160 Pink	10 Coho
	3				200 Pink	12 Coho
	4				130 Pink	5 Coho
	5			10:30	185 Pink	13 Coho
	0		Luck Point	10:45		
	0		Kashevarof	11:00		
	0		Snow Pass	11:15		

By 0930 on August 28 only ten vessels were seen in Clarence Straits, and they were fishing at Marsh Island. Fishermen indicated that the pinks were turning dark and that about 50% of the chums were dark. The five boats interviewed averaged 2 sockeye, 11 coho, 175 pink and 21 chum per boat.

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